

IN THE CLAIMS

1. (currently amended) A communication apparatus, comprising:

first radiocommunication means for sending data to a host device and receiving data from the host device via a radiocommunication network;

second radiocommunication means for sending data to a communication device and receiving data from the communication device connected to an external communication network separate from the radiocommunication network via the radiocommunication network;

storage means for storing communication setting information on the external communication network, and protocol stacks having at least a first protocol stack and a second protocol stack in which the first protocol stack includes a plurality of protocols and the second protocol stack includes a plurality of protocols; and

communication controlling means for setting a relation of connection to the external communication network via the radiocommunication network and the communication device based on the communication setting information and the protocol stacks stored in the storage means and for controlling the first radiocommunication means and the second radiocommunication means to transfer data between the external communication network and the host device.

2. (previously presented) The apparatus according to claim 1, wherein the storage means stores personal information of a user that operates the host device; and

the communication controlling means uses the communication setting information stored in the storage means and the personal information stored in the storage means to set

a relation of connection between the host device and the external communication network.

3. (previously presented) The apparatus according to claim 1, wherein the storage means stores one of PPP (point to point protocol), IP (Internet protocol), and TCP (transport control protocol); and

the communication controlling means uses one of the protocols stored in the storage means to set a connection between the host device and the external communication network and to control the data transfer between the host device and the external communication network.

4. (previously presented) The apparatus according to claim 1, wherein the second radiocommunication means connects via the radiocommunication network to a mobile communication device having a protocol for connecting to a mobile network; and

the communication controlling means sets a relation of connection between the mobile network and the host device via the radiocommunication network.

5. (currently amended) ~~The~~ A communication apparatus according to claim 1, comprising:

first radiocommunication means for sending data to a host device and receiving data from the host device via a radiocommunication network;

second radiocommunication means for sending data to a communication device and receiving data from the communication device connected to an external communication network separate from the radiocommunication network via the radiocommunication network;

storage means for storing communication setting information on the external communication network; and

communication controlling means for setting a relation of connection to the external communication network via the radiocommunication network and the communication device based on the communication setting information stored in the storage means and for controlling the first radiocommunication means and the second radiocommunication means to transfer data between the external communication network and the host device,

~~wherein~~ in which the storage means stores a first protocol stack including protocols intended for data transfer to the host device and from the host device, and a second protocol stack including protocols for data transfer to the communication device and from the communication device;

the first radiocommunication means sends data to the host device and receives data from the host device by using the first protocol stack, and the second radiocommunication means sends data to the communication device and receives data from the communication device by using the second protocol stack; and

the communication controlling means sets a relation of connection between the external communication network and the external communication network by using the first and the second protocol stacks.

6. (previously presented) The apparatus according to claim 5,

wherein the second protocol stack stored in the storage means

first protocol stack, and the second radiocommunication means includes protocols for data transfer between the second radiocommunication means and the communication device and protocols for data transfer between the external communication network and the second radiocommunication means via the communication device.

7. (currently amended) A communication method for a communication apparatus that sends data to a host device and receives data from the host device via a radiocommunication network, and that sends data to a communication device and receives data from the communication device connected to external communication network separate from the radiocommunication network via the radiocommunication network, comprising the steps of:

setting a relation of connection with the external communication network via the communication device by using internally stored communication information on the external communication network and protocol stacks having at least a first protocol stack and a second protocol stack in which the first protocol stack includes a plurality of protocols and the second protocol stack includes a plurality of protocols; and

sending data to the external communication network and receiving data from the external communication network via the communication device by using the relation of connection with the external communication network while sending data to the host device and receiving data from the host device via the radiocommunication network for controlling the data transfer between the host device and the external communication network.

8. (previously presented) The method according to claim 7, further comprising the step of setting a relation of connection between the host device and the external communication network by using personal information of a user of the host device and communication setting information, the personal information and the communication setting information being stored in the communication apparatus.

9. (previously presented) The method according to claim 7, further comprising the step of setting a connection

between the host device and the external communication network by using one of PPP (point to point protocol), IP (Internet protocol), and TCP (transport control protocol) stored in the communication apparatus to control data transfer between the host device and the external communication device.

10. (previously presented) The method according to claim 7, further comprising the step of setting a relation of connection between the mobile network and the host device via the communication device using the relation of connection between the communication device and mobile network set in accordance with a protocol intended for a connection to a mobile network, stored in the communication device.

11. (currently amended) The—A communication method—for a communication apparatus that sends data to a host device and receives data from the host device via a radiocommunication network, and that sends data to a communication device and receives data from the communication device connected to an external communication network separate from the radiocommunication network via the radiocommunication network, comprising the steps of according to claim 7, further comprising the steps of:

setting a relation of connection with the external communication network via the communication device by using internally stored communication information on the external communication network;

sending data to the external communication network and receiving data from the external communication network via the communication device by using the relation of connection with the external communication network while sending data to the host device and receiving data from the host device via the

radiocommunication network for controlling the data transfer between the host device and the external communication network;

holding in the communication device a first protocol stack including protocols intended for data transfer to the host device and from the host device and a second protocol stack including protocols intended for data transfer to the communication device and from the communication device;

sending data to the host device and receiving data from the host device by using the first protocol stack while sending data to the communication device and receiving data from the communication device by using the second protocol stack; and

setting a relation of connection between the external communication network and the host device via the radio communication network by using the first and the second protocol stacks.

12. (previously presented) The method according to claim 11, wherein the second protocol stack includes protocols for data transfer between the communication apparatus and the communication device and protocols for data transfer between the external communication network and the communication apparatus.